

Title (en)  
POLYOXAZOLIDONE RESINS

Title (de)  
POLYOXAZOLIDONHARZE

Title (fr)  
RÉSINES POLYOXAZOLIDONE

Publication  
**EP 2499180 A2 20120919 (EN)**

Application  
**EP 10768164 A 20101015**

Priority  
• US 26066709 P 20091112  
• US 2010052767 W 20101015

Abstract (en)  
[origin: WO2011059633A2] An epoxy oxazolidone including the reaction product of (a) a divinylarene dioxide, and (b) an excess of a polyisocyanate to provide an epoxy oxazolidone composition; wherein the composition has an oxazolidone selectivity of greater than 40 % relative to the total of the carbonyl compounds; a process for making the epoxy oxazolidone; and a curable epoxy resin composition including (i) the epoxy oxazolidone derived from a divinylarene dioxide such as divinylbenzene dioxide (DVBDO) and a polyisocyanate, (ii) at least one curing agent; and/or (iii) a catalyst. The cured product made from the above epoxy resin composition is thermally stable and offers improved properties such as a lower viscosity and a high heat resistance compared to known cured products prepared from known epoxy resins.

IPC 8 full level  
**C08G 59/02** (2006.01); **C08G 59/26** (2006.01); **C08G 59/28** (2006.01)

CPC (source: CN EP US)  
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Citation (search report)  
See references of WO 2011059633A2

Citation (examination)  
• WO 8606734 A1 19861120 - DOW CHEMICAL CO [US]  
• WO 9015089 A1 19901213 - DOW CHEMICAL CO [US]

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